

A schematic diagram of a fluid flow cell. A rectangular block 101 is shown with a central horizontal channel. A light source 104 is positioned to the left of the channel, emitting four parallel light beams 103 into the channel. The channel is filled with fluid 121, which flows downwards as indicated by a large arrow on the right labeled "FLOW OF FLUID". The fluid enters the channel from the top through an inlet 102 and exits through an outlet 122 at the bottom. The channel is divided into three sections by vertical partitions, with the fluid flowing from left to right in each section.

A schematic diagram of a fluid control device, likely a valve or actuator. The device consists of a central horizontal channel (1) through which fluid flows, indicated by the label "FLOW OF FLUID" and an arrow. The channel is flanked by two main vertical sections (2) and (3). Section 2 is on the left and section 3 is on the right. Both sections have a top port (21) and a bottom port (22). The bottom ports (22) are connected to a common horizontal passage (4) at the bottom. The top ports (21) are connected to a common horizontal passage (4) at the top. The central channel (1) is shown with a cross-section (1-1) indicated by a circle. The device is shown in a cross-sectional view, with hatching used to indicate different materials or components.

**FIG. 2A**

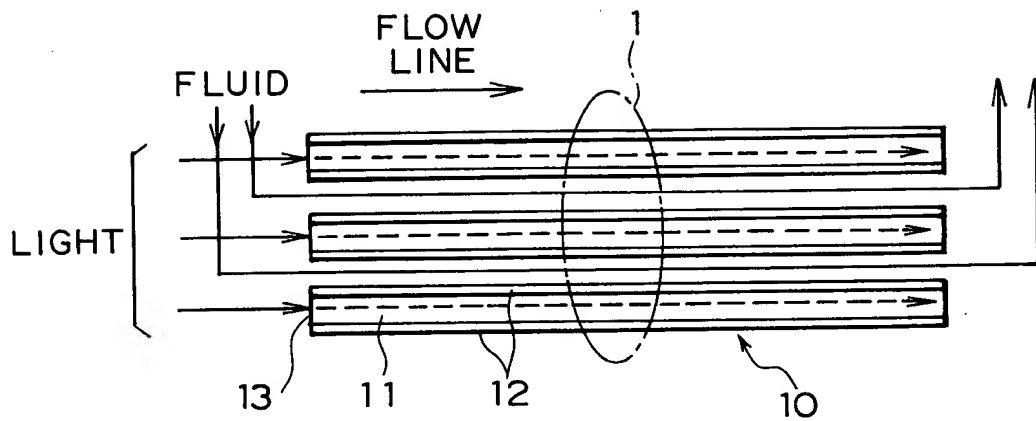


FIG. 2B

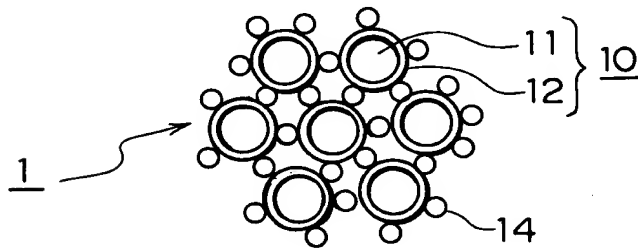


FIG. 2C

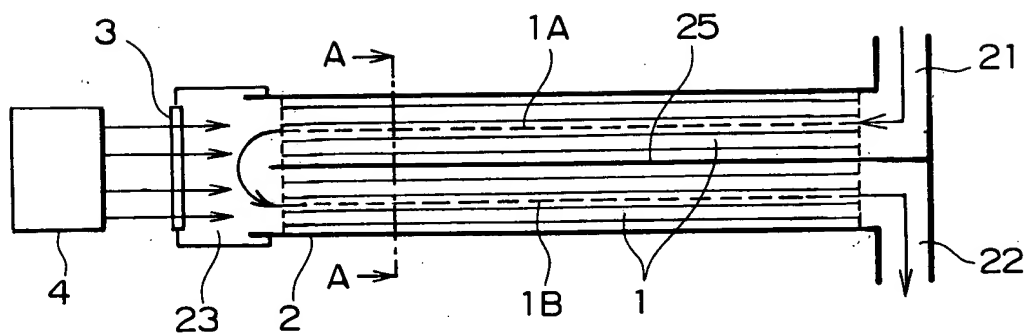


FIG. 3A

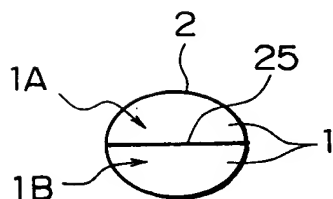


FIG. 3B

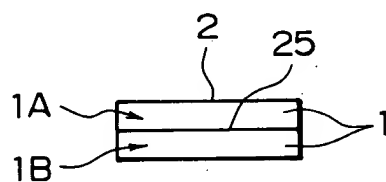


FIG. 3C

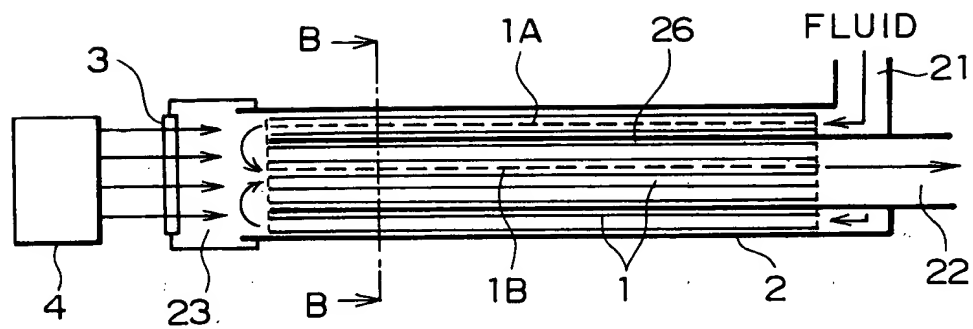


FIG. 4A

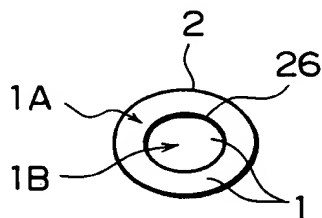


FIG. 4B

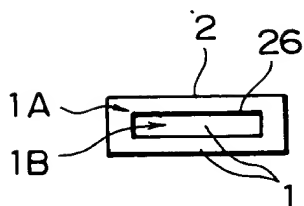


FIG. 4C

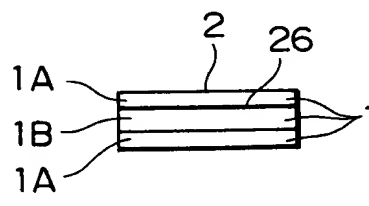
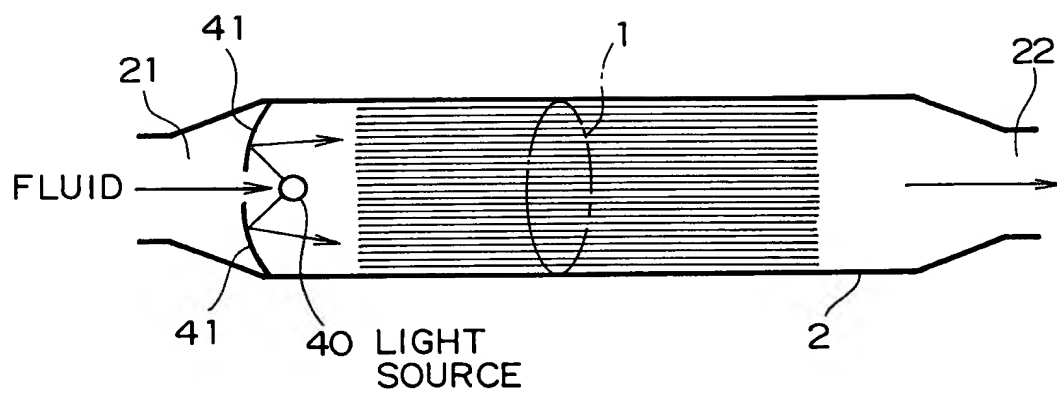


FIG. 4D





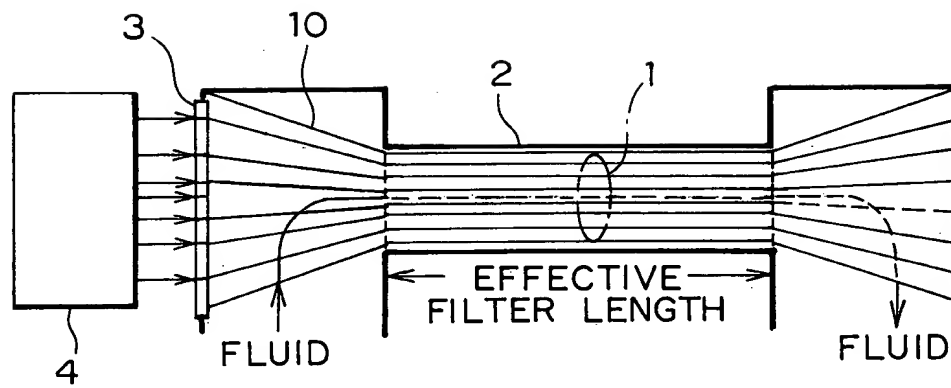


FIG. 8A

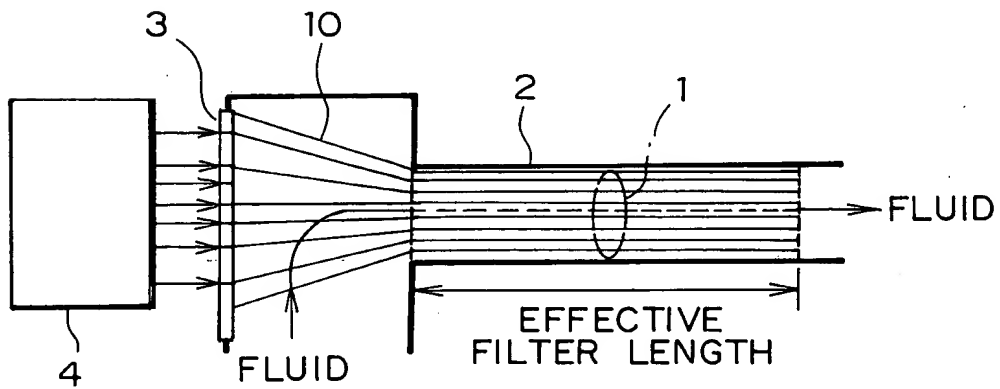
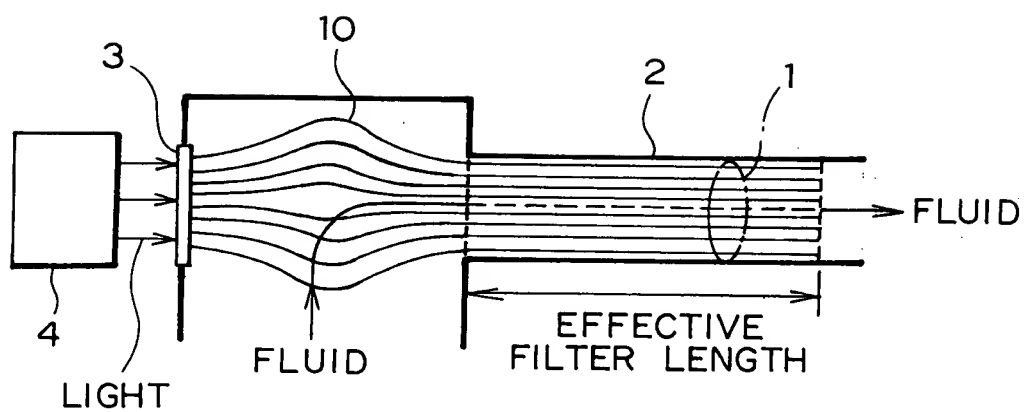


FIG. 8B





A schematic diagram of a laser beam propagating through a fiber optic cable. The cable is represented by a long rectangle with dashed lines indicating its boundaries. Inside, a series of horizontal lines represent the light beam. At the left end, a lens-like structure (41) focuses the beam into the cable. At the right end, another lens-like structure (40) focuses the beam out of the cable. A label '2' points to the central part of the beam, and a label '1' points to the right end of the beam.

The diagram illustrates a light pipe assembly 10. It consists of three parallel light pipes 11. Each light pipe has an input face 12 on the left and an output face 10 on the right. Primary light enters from the left, and secondary light exits to the right. A lens 1 is positioned between the output faces of the light pipes.

FIG. 10